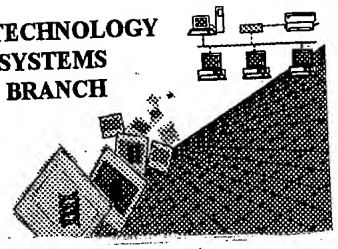
0590
0730

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/821,782B
Source: OIPE
Date Processed by STIC: 8/8/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002

OIPE

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/821,782B

DATE: 08/08/2002
TIME: 12:08:11

Errors throughout. See also pp. 6+7 for additional errors.

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

4 <110> APPLICANT: Kumar Verma, Sunil
5 Singh, Lalji
7 <120> TITLE OF INVENTION: UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION
9 <130> FILE REFERENCE: U-013365-9
11 <140> CURRENT APPLICATION NUMBER: 09/821782B
13 <141> CURRENT FILING DATE: 2001-03-29
15 <160> NUMBER OF SEQ ID NOS: 255

ERRORED SEQUENCES

17 <210> SEQ ID NO: 1
19 <211> LENGTH: (25) — Counted 26
21 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
27 <223> OTHER INFORMATION: Universal primer "mcb 398" for amplifying fragment of cytochrome b gene
28 of animal species
30 <400> SEQUENCE: 1
E--> 32 taccatgagg acaaatatcta ttctg (25) - Counted 26
412 <210> SEQ ID NO: 19
414 <211> LENGTH: (328) - found 327
416 <212> TYPE: DNA
418 <213> ORGANISM: gz21CL
420 <220> FEATURE:
422 <223> OTHER INFORMATION: DNA sequence generated from the known clouded leopard (Neofelis
423 nebulosa) animal number 1 using primers mcb398 and mcb869
425 <400> SEQUENCE: 19
427 tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattttt cgccttccac 60
428 ttcatcctcc catttatcat ctcagcctta gcagcagttc accttctatt tctccatgaa 120
E--> 429 aaggatcca ataacccctc aggaatggta tccgattcag acaaaatccc gttccacccg (180) counted 179
E--> 430 tactatacaa tcaaagatat cctaggcctc ctagttctaa ttctagcgct cacactactt 240
E--> 431 gttctattct ccccagacct actaggagac cctgacaatt acactcccgc caaccctcta 300
E--> 432 aataccctc cccatatcaa gcctgaat (328) - found 327
435 <210> SEQ ID NO: 20
437 <211> LENGTH: (328) - found 327
439 <212> TYPE: DNA
441 <213> ORGANISM: gz22CL
443 <220> FEATURE:
445 <223> OTHER INFORMATION: DNA sequence generated from the known clouded leopard (Neofelis
446 nebulosa) animal number 2 using primers mcb398 and mcb869

448 <400> SEQUENCE: 20
450 tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattttt cgccttccac 60

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/821,782B

DATE: 08/08/2002
TIME: 12:08:11

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

451 ttcatcctcc catttatcat ctcagcctta gcagcagttc accttctatt tctccatgaa 120
E--> 452 aaggatcca ataacccctc aggaatggta tccgattcag acaaaatccc gttccacccg 180 - 179
E--> 453 tactatacaa tcaaagatat cctaggcctc ctagttctaa ttctagcgct cacactactt 240
E--> 454 gttctattct ccccagacct actaggagac cctgacaatt acactcccgc caaccctcta 300
E--> 455 aataccccctc cccatatcaa gcctgaat 328 327

1286 <210> SEQ ID NO: 61 — nos. differ
1288 <211> LENGTH: 472
1290 <212> TYPE: DNA
1292 <213> ORGANISM: Balaenoptera edeni
E--> 1294 <400> SEQUENCE: 60
1296 taccctgagg acaaatatca ttttgaggcg caaccgtcat caccaacctc ttatcagcaa 60
1297 tcccatacat tggtactacc ctagtcgaat gaatctgggg cggtttctct gtagataaag 120
1298 caacactaac acgctttttt gccttccact ttatcctccc cttcattatt ctagcactag 180
1299 caatggtcca cctcatttc ctccacgaaa caggatccaa taaccccaca ggtattccat 240
1300 ccaacataga caaaatccca ttccacccct attacacaac taaagacatt ctaggcgccc 300
1301 tactactaat cctaacccta ctaatgctaa ccctattcgt acccgaccta cttggagacc 360
1302 cagacaacta cactccagca aatccactca gtaccccaac acacattaaa ccagaatgat 420
1303 atttcctatt tgcatacgca atcctacgat caattcccaa caaattaggc gg 472

E--> 2315 <210> SEQ ID NO: 13 — nos. differ
2317 <211> LENGTH: 472
2319 <212> TYPE: DNA
2321 <213> ORGANISM: Hyperoodon ampullatus
E--> 2323 <400> SEQUENCE: 113
2325 taccctgagg acaaatatca ttctgaggcg caaccgtcat caccaatctc ctatccgcca 60
2326 ttccctatat cggcactacc ctagttgaat gaatctgagg tggtttctcc gtagacaaag 120
2327 ccacattaac ccgctttttc gccctccact ttatcctccc attcattatt ctagccctag 180
2328 caatcgtcca cctactattc ctccatgaaa caggatccaa caatcccaca ggaattccat 240
2329 ctgacataga caaaatcccg ttccacccat actacacaat caaagacact ctaggggccc 300
2330 tattactaat cctagtccta ctcacattaa ccctattcgc acccgaccta ctaggagacc 360
2331 ctgataacta taccccagca aacccactca gcactccagc acacatcaaa ccagaatggt 420
2332 acttcttatt tgcatacgca atcctacgtt caatccctaa caaactagga gg 472

E--> 2335 <210> SEQ ID NO: 114 — ?
4295 <210> SEQ ID NO: 214
4297 <211> LENGTH: 23 - found 22
4299 <212> TYPE: DNA
4301 <213> ORGANISM: Artificial Sequence
4303 <220> FEATURE:
4305 <223> OTHER INFORMATION: Primer for amplifying a fragment of cytochrome b
4306 gene of animal species in polymerase chain reaction
4308 <400> SEQUENCE: 214
E--> 4310 tagtagaat gaatctgagg agg 22
4313 <210> SEQ ID NO: 215
4315 <211> LENGTH: 23 - found 22
4317 <212> TYPE: DNA
4319 <213> ORGANISM: Artificial Sequence
4321 <220> FEATURE:
4323 <223> OTHER INFORMATION: Primer for amplifying a fragment of cytochrome b
4324 gene of animal species in polymerase chain reaction
4326 <400> SEQUENCE: 215

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/09/821,782B TIME: 12:08:11

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

E--> 4328 atgcaaata ggaagtatca ttc 22
4352 <210> SEQ ID NO: 217
4354 <211> LENGTH: 472
4356 <212> TYPE: DNA
4358 <213> ORGANISM: Oreotragus oreotragus — n detected in sequence - see p. 7 for explanation
4360 <400> SEQUENCE: 217
4362 ttccgtgagg acaaatatca ttttgagggg ctacagtcat tactaatctc ctctcagcaa 60
4363 ttccatatat tggcacaaac ctggtagaat gaatctgagg aggattctcg gtggacaaag 120
4364 caacccttac ccgattcttt gcctttcact tcatctttcc atttatcatc gcagccctag 180
4365 ccatagtaca cctactcttt ctccacgaaa cagggtccaa taaccccaca ggaatctcat 240
4366 cagacacaga caaaatccca tttcatcctt attacacaat caaagatatc ctaggcgccc 300
4367 tattactaat tctagcttta ttactcttag tattattcac acctgaccta cttggagacc 360
4368 cagataacta caccccagca aacccactca acactccccc tcacattaaa ccagaatggt 420
E--> 4369 atttnctatt ngcatatgca atcctacgat caatccccaa taaactagga gg 472
4532 <210> SEQ ID NO: 226
4534 <211> LENGTH: 472
4536 <212> TYPE: DNA
4538 <213> ORGANISM: Bison bonasus — same error
4540 <400> SEQUENCE: 226
4542 taccatgagg acaaatatca ttttgaggag caacagtcat taccaacctc ctatcagcaa 60
4543 tcccatacat cggcacaaat ctagtcgaat gaatctgagg cggattctca gtagacaaag 120
4544 caacccttac ccgatttttc gctttccact ttatcctccc atttattatc atagcaattg 180
4545 ccatagttca cctactattc ctccacgaaa caggttctaa caatccaaca ggaatttcct 240
4546 cagacacaga caaaattcca ttccaccctt actataccat taaagacatc ctaggagcct 300
4547 tattactaat tctaactcta atactactag tactattcgc accggacctc ctcggagacc 360
4548 cagataacta caccccagca aatccactta acacacctcc ccacatcaaa cccgaatgat 420
E--> 4549 acttcttatt tgcatangca attttacggt caatccccaa caaactagga gg 472
4808 <210> SEQ ID NO: 240
4810 <211> LENGTH: 472
4812 <212> TYPE: DNA
4814 <213> ORGANISM: Rupicapra rupicapra — same error
4816 <400> SEQUENCE: 240
4818 taccatgagg acagatatca ttctggggag caacagttat taccaacctc ctctcagcga 60
4819 tcccgtatat tggcacagac ttagtcgaat gaatctgagg aggcttctcg gtagacaagg 120
4820 ctaccctcac ccgattcttt gccttccact tcatcctccc atttatcatt gcagccttag 180
4821 ccctagtcca cctactcttc ctccacgaaa caggatctaa caaccccaca ggaatcccat 240
E--> 4822 cagatgcgga caaaatccca tttnacccct attataccat caaagacatt ctgggcgcca 300
E--> 4823 tactactaat cctcaccctc atactactag tactattnac acctgaccta ctcggagacc 360
4824 cagataatta caccccagcg aacccactca acacacccc tcacattaaa cccgagtgat 420
4825 atttcttatt tgcatatgca attctacgat caatccccaa caaacttgga gg 472
5111 <210> SEQ ID NO: 255
5113 <211> LENGTH: 472
5115 <212> TYPE: DNA
5117 <213> ORGANISM: Cervus elaphus canadensis
E--> 5119 <400> SEQUENCE: AB021096 — must state sequence no. → should be 255
5121 taccatgagg acaaatatca ttctgaggag caacagtcat taccaacctt ctctcagcaa 60
5122 ttccatacat tggcacaaac ctagtcgaat gggtctgagg aggcttttca gtagataaag 120
5123 caaccctaac ccgattcttc gctttccact ttattctccc atttatcatc gcagcactcg 180
5124 ctatagtaca cttactcttc cttcacgaga caggatctaa taacccaaca ggaatcccat 240

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/09/821,782B TIME: 12:08:11

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

5125 cagacgcaga caaaatcccc ttccaccctt actatacgat taaagatatc ttaggtatct 300
5126 tacttctaat actcttccta atattactag tattattcgc accagatctg cttggagacc 360
5127 cagacaacta taccccagca aatccactca acacaccccc tcacattaaa cctgaatgat 420
5128 atttcctatt tgcatacgca atcctacgat caattcccaa caaactagga gg 472

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/08/2002
PATENT APPLICATION: US/09/821,782B TIME: 12:08:12

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

Skipped Sequences(NEW RULES):
Sequence(s)__missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

Seq#:14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37
Seq#:38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61
Seq#:62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85
Seq#:86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107
Seq#:108,109,110,111,112,113

VARIABLE LOCATION SUMMARY DATE: 08/08/2002
PATENT APPLICATION: US/09/821,782B TIME: 12:08:12

Input Set : A:\0133659 sequence listing.txt
Output Set: N:\CRF4\08082002\I821782B.raw

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:45; N Pos. 269,431
Seq#:216; N Pos. 104,107,128,368,369,431
Seq#:217; N Pos. 425,431
Seq#:226; N Pos. 437
Seq#:240; N Pos. 264,338
Seq#:244; N Pos. 264,265,266,267,268,269,270,271,272,273,274,275,276,277
Seq#:244; N Pos. 278

VERIFICATION SUMMARY DATE: 08/08/2002
PATENT APPLICATION: **US/09/821,782B** TIME: 12:08:12

Input Set : **A:\0133659 sequence listing.txt**
Output Set: **N:\CRF4\08082002\I821782B.raw**

L:32 M:254 E: No. of Bases conflict, LENGTH:Input:25 Counted:26 SEQ:1
L:32 M:252 E: No. of Seq. differs, <211> LENGTH:Input:25 Found:26 SEQ:1
L:429 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:179 SEQ:19
M:254 Repeated in SeqNo=19
L:432 M:252 E: No. of Seq. differs, <211> LENGTH:Input:328 Found:327 SEQ:19
L:452 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:179 SEQ:20
M:254 Repeated in SeqNo=20
L:455 M:252 E: No. of Seq. differs, <211> LENGTH:Input:328 Found:327 SEQ:20
L:971 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:240
L:986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:420
L:1294 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:61 differs:60
L:2315 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 13
L:2323 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:13 differs:113
L:2335 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 14 thru 113
L:4310 M:252 E: No. of Seq. differs, <211> LENGTH:Input:23 Found:22 SEQ:214
L:4328 M:252 E: No. of Seq. differs, <211> LENGTH:Input:23 Found:22 SEQ:215
L:4344 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:216
L:4344 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:216
L:4344 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:216
L:4344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:60
L:4345 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:216
L:4345 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:216
L:4345 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:216
L:4345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:120
L:4349 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:216
L:4349 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:216
L:4349 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:216
L:4349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:360
L:4350 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:216
L:4350 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:216
L:4350 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:216
L:4350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:420
L:4369 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:217
L:4549 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:226
L:4822 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:240
M:340 Repeated in SeqNo=240
L:4897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:244
L:4909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:240
L:5119 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:255 differs:254